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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/761,350	01/22/2004	Masanao Furukawa	D-1358CON 3430		
7	7590 05/11/2004		EXAMINER		
KANESAKA AND TAKEUCHI			CYGAN, MICHAEL T		
Suite 2					
1423 Powhatai	n Street	ART UNIT	PAPER NUMBER		
Alexandria, V	'A 22314	2855			

2855
DATE MAILED: 05/I 1/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
Office Action Summary		10/761,35	50	FURUKAWA, MASANAO				
		Examiner		Art Unit				
		Michael C	• •	2855				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on _	·						
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)🖂	Claim(s) 1-8 is/are pending in the application	on.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
	Claim(s) <u>1-8</u> is/are rejected.							
	Claim(s) is/are objected to.							
8)[]	Claim(s) are subject to restriction ar	id/or election re	equirement.					
Applicati	on Papers				•			
9) 🗌 🤈	The specification is objected to by the Exan	niner.						
10)⊠ The drawing(s) filed on <u>22 January 2004</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)[_]	The oath or declaration is objected to by the	e Examiner. No	te the attached Office	Action or form P	10-152.			
Priority under 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
 1. ☐ Certified copies of the priority documents have been received. 2. ☒ Certified copies of the priority documents have been received in Application No. 10/300,581. 								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Claim Objections

 Claim 6 is objected to because of the following informalities: the phrasing "is expected with reference to a speed thereof" is not understood. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Wada (US 5,803,951). Wada discloses the claimed invention, a gas chromatograph comprising a sample chamber [14], split gas path [18] having control valve [19], pressure sensor [16], and control unit [25]. The control unit includes a comparison device such that the valve is controlled to be opened to such a degree that a predetermined chamber pressure (as measured by the pressure sensor) is maintained (see abstract). The control unit further includes a closed-loop control which quickly maintains a preset opening degree of the valve [14] while the comparison device determines that the increment in internal pressure exceeds a preset threshold value during a

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sample injection, and then returning to the initial value, optionally with the use of a timer to measure a specified length of time (see abstract and column 4 lines 1-65). See entire disclosure, especially Figures 1-3 and columns 3-4.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 7 and 8 rejected under 35 U.S.C. 103(a) as being unpatentable over Wada (US 5,803,951). Wada teaches the claimed invention except for the use of an autosampler. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use an autosampler in the invention taught by Wada to perform the sample injection, since autosamplers are notoriously well known in the gas chromatography art to be more repeatable, reliable, and controllable than manual injection. Furthermore, it has been held that broadly providing a mechanical or automatic means to replace manual activity which has accomplished the same result involves only routine skill in the art. See *In re Venner*, 120 USPQ 192.

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Miyoshi (JP 2000249693) and Fukushima (US 5,391,221) disclose control of a split valve to reduce injection losses. Henderson (US 5,431,712) and Nakagawa (US 5,339,673) disclose control of split valves.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Cygan whose telephone number is (571) 272-2175. The examiner can normally be reached on 8:30-6 M-Th, alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Cygan Primary Examiner Art Unit 2855